Riverside Secondary School Name: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Math 10: Foundations and Pre-Calculus**

**Homework Assignments Sheet**

Notes:

1) **“Questions 3 – 6”** stands for questions 3, 4, 5, and 6 (not just 3 and 6), WS stands for worksheet

2) **Symbol \*** beside a question means that a calculator is used for that question

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| **Chapter 1** | | **Number 6 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions** |
| 1 | Review | | Integers, Basic Linear Equations | WS | all |
| 2 | **#1**/1  **#2**/7 | | Prime Factors  Applications of Prime Factors | Pg. 3  Pg. 11 | 1ad, 2ace, 4acefh, 5, 6, 7d, 8, 9c, 10b\*, 11c\*, 12, 13  (1-3)b, 4a\*, 5bd, (6,7)b, 8c\*, 10b\* |
| 3 | **#3**/17 | | Rational and Irrational #s | Pg. 20 | 1abdh, 2, 3, 4, 9\*, 10\* |
|  | **#4/**23 | | Number Systems | Pg. 29 | 1, 2abegh, 4\*, 7abc, 9b, 10, 11b, 13a, 14, 15, 18 |
| 4 | **#5**/33 | | Radicals | Pg. 36 | 1abdefhij, 2, 3abgi\*, 5c\*, 6c, 8abdfg, 9, 10a, 11, 12, 13 |
| 5 | **#6** /39 | | Entire and Mixed Radicals (1) | Pg. 42 | 1, 2a-d,3 abehn\*, 4ac, 5acfh, 7ad, 8, 10\*, 11\*, 12, 13 |
| 6 | **#7**/49 | | Entire and Mixed Radicals (2) | Pg. 51 | 1abc, 2abef, 3, 4, 5, 6, 7 |

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| **Chapter 2** | | **Exponents 7 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions** |
| 7 | **#1**/61 | | Powers with Whole Number Exponents | Pg. 64 | 1abc, 2abef, 3, 4, 5, 6, 7 |
|  | **#2**/71 | | Combining the Expon. Laws | Pg. 73 | (1-9)ac, 10, 11 |
| 8 | **#3**/77 | | Integral Exponents | Pg. 80 | (1, 3, 4, 5)ace, 6ae\*, 7adg, 8acd, (9-12)ad, 13bf, 14a, 15, 17 |
| ~~9~~ | **~~#4~~**~~/85~~ | | ~~Scientific Notation~~ | ~~Pg. 89~~ | ~~1, 2acdf, 3a, 4be, 5ac, 6, 8aei, (9,10)ac, 11a, 13, 14~~ |
| 10 | **#5**/93 | | Rational Exponents (Part 1) | Pg. 96 | (1,2)achj, (3, 4)ace, 5ace\*, 6afkl, 7,10adf, 11-13 |
| 11 | **#6**/99 | | Rational Exponents (Part 2) | Pg.101 | (1-3)ach, 4bce, 5ab, 6ace, 7abfgh, 8, 10, 13, 14-16 |
| 12 | **#8**/55 | | Review – Practice Test | Pg. 55 | All except : **[5, 15\* Num. Resp.3, 5]** |
| **#7**/107 | | Review – Practice Test | Pg.107 | All except : **[13\*, Written Response 1\*]** |
| 13 | Chapter 1 (Number) / Chapter 2 (Exponents) Test | | | | |

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| **Chapter 3** | | **Measurement 8 days** | | | |
| 14 | **#1**/113 | | Review and Preview | Pg.118 | (1)\*, 3ade, 4ac, (6,7)b, 8b\*, 9bdf, 11abe\*, 12ace\*, 13\* |
|  | **#2**/123 | | Referents in Measurement | Pg.127 | 2, 3, 5ace, 6, 8 – 15  Protractor WS |
| 15 | **#3**/131 | | Measuring Devices | Pg.137 | 1acdfh, 2ac, 3ac, 6, 7 (Worksheet) |
| 16 | **#4**/141 | | Conversion : SI System | Pg. 146 | 1abgijkl, 2abeh, 3, 4adhjk, (5,6)\*, (7-9)cd, (10 – 16) |
| 17 | **#5**/153 | | Conversion: SI/Imperial | Pg. 153 | 1afgh\*, 2\*, 3ac\*, 4ace\*, 5\*, (6,7)(pick one famous person for each), 8, (13 – 15)\* |
|  | **#6**/157 | | Conversion: SI/Imperial | Pg. 161 | 1afgh\*, 2afh\*, 3afh\*, 4ace\*, 5ace\*,6\*, 7a\*, 8\* |
| 18 | **#7**/165 | | Surface Area and Volume:  Prisms and Cylinders | Pg.170 | 1ae\*, 2\*, 4, 5ac, 6, 7, 8, , 11, (12, 13)\* |
|  | **#8**/175 | | Surface Area and Volume:  Pyramids and Cones | Pg.178 | 1ac\*, 2ace\*, 3ac\*, 4\*, 5b\*, 6, 8, 9 \*, 13, 15\*, 16\* |
| 19 | **#9**/185 | | Surface Area and Volume:  Spheres | Pg.188 | 1\*, (2 -3)\*(5-7),(9 – 12)\*, (14 – 16)\* |
| 20 | **#10**/193 | | Review – Practice Test | Pg.193 | All except : **[Written Response 1\*]**  Review WS |
| 21 | Chapter 3 (Measurement) Test | | | | |

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| **Chapter 4** | | **Trigonometry 8 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions** |
| 24 | **#1**/199  **#2**/209-211 | | Trigonometric Ratios  Trig. Ratios on a Calculator | Pg.203  Pg.214 | 1aceg, 2ac, 3ac, 4\*, 5, 6ce, 8 – 10, 11\*  1ail\*, 2def\*, 3adefh\*, 4aefh\*, 5 – 7, 8abcde, (9, 10)\*, 11, 14\* **[8f, 12, 13]** |
| 25 | **#3**/219 | | Calculating the Side Length in a Right Triangle | Pg.222 | 1abcei\*, (2 – 4)\*, 5bef\*, 7, 8b\*, 9\*, 10, (11, 12)\* |
| 26 | **#4**/227 | | Calculating the Angle Measure in a Right Triangle | Pg.230 | (1 – 3)b\*, (4 – 6)\*, 7\*, (8 – 11)\*, 12, 13\*, 14\* |
| 27 | **#5**/235 | | Determining Angles and Sides in Right Triangles | Pg.237 | 1abde\*, 2\*, (3 – 6)\*, 7\*, 9\*, 10 **[(11 – 17)\*]** |
| 28 | **#6**/241 | | Problem Solving Using Trigonometric Ratios | Pg.244 | (1 – 4)\*, (6 – 9)\* **[5\*]** |
| 29 | **#7**/249 | | More Problem Solving Using Trigonometric Ratios | Pg.251 | (1 – 4)\*, 6\*, 7\*, 8\*, 9, 10\* **[5\*]** |
| 30 | **#8**/257 | | Review – Practice Test | Pg.257 | All except : **[14]** |
| 31 | Chapter 4 (Trigonometry) Test | | | | |

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| **Chapter 5** | | **Polynomial Operations 4 days** | | | |
| 32 | **#1**/265  **#2**/275 | | Review and Preview  Multiplying a Polynomial by a Monomial | Pg.269  Pg.278 | 1, 2ace, 3, 4, 5, 6ac, (7, 8)c, 9, 10, (11, 12)b, (13, 14)ce, 15, 16 **[19, 20]**  (1, 2)abe, 3b, 4bfgij, 5efh, 6, 7egik, 9 **[8, 10, 11]** |
| 33 | **#3**/285 | | Multiplication of Two Binomials | Pg.288 | 1bce, 2bfg, 3acf, 4bdfh, 5behjl, 6, 7bfgi, 8, 9 |
| 34 | **#4**/293  **#5**/299 | | Multiplication of Polynomials | Pg.295  Pg.301 | 1fhl, 2cdf, 3bc, 4acd, 5bce **[4f, 6, 7]**  1b, 2b, 3bcd, 4bc, 6, 7bc, 8 **[9]** |
| 35 | **#6**/305 | | Problem Solving with Polynomial Products | Pg.307 | (1, 2)\*, 4\*, 6, 7ac, 9, 10\*, 12\*, 14\*, 15\* **[5, 7bd, 8, 11\*, 13]** |

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| **Chapter 6** | | **Factoring Polynomial Expressions 10 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions [Enrichment]** |
| 36 | **#1**/321 | | Common Factors (Part 1) | Pg.324 | 2, 3abcfk, 4cef, 5acf, 6bcfgh, 7acf, 8ad, 9, 10\*, 11, 13, 14 **[12, 15, 16]** |
| 37 | **#2**/329 | | Common Factors (Part 2) | Pg.331 | 1acei, 2ace, 3adfgi, (4 – 6)b, 7bfgh, 9, 12, 14 **[8\*, 10, 11, 13]** |
| 38 | **#3**/335 | | Factoring Trinomials  x2 + bx + c (Part 1) | Pg.338 | 1, 2, 3ac, 4, 5acf, 6ace, 7acegikmo, 8, 9, 10bce, 12, 13, 14, 15 **[11]** |
| 39 | **#4**/343 | | Factoring Trinomials  x2 + bx + c (Part 2) | Pg.344 | 1, 2acef, 3acfhk, 4acef, 6bcf, 7ac, (8 – 11) **[5]** |
| 40 | **#5**/347 | | Factoring Difference of Squares | Pg.350 | 1, 2, 4acfikmop\*, 5ab, 6abcegh, 7aceg, 8, 11, 12, 13 **[5c\*, 9, 10, 14]** |
| 41 | **#6**/355 | | Factoring Trinomials  ax2 + bx + c (a≠1) | Pg.358 | 1, 2ad, 3acdefh, 4bcfgh\*, 5a, 6bcf, 8, 9acde\*, (10 – 13)\* **[5bc\*, 7, 14]** |
| 42 | **#7**/365 | | Further Factoring | Pg.368 | 1, 2abdeh, 3ace\*, 4acef, 5bcg\*, 6acdef, 8 – 11 **[3f, 5h\*, 7\*, 12\*, 13\*]** |
| 43 | **#8**/373 | | Factoring Review | Pg.374 | All (try as many as you can without a calculator) |
| 44 | **#7**/313 | | Review – Practice Test | Pg.313 | All except : **[13, 14, 15 + Num. Resp. 4]** |
| **#10**/383 | | Review – Practice Test | Pg.383 | All except : **[Written Response 1 – bullets 4 and 5]** |
| 45 | Chapter 5 (Polynomial Operations) / Chapter 6 (Factoring Polynomial Expressions) Test | | | | |

**Review Days &**

**Midterm Exam covering Chapters 1-6**

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| **Chapter 7** | | **Relations and Functions 10 days** | | | |
| 46 | **#1**/389 | | Review and Preview | Pg.392 | All\* |
| 47 | **#2**/399 | | Relationships Between Two Quantities | Pg.399 | All\* |
| 48 | **#3**/413 | | x- and y – intercepts  Interpreting Relations | Pg.416 | 1, 2, 3cdfi, (4, 5)\*, 8 **[6\*, 7\*, 9]** |
| 49 | **#4**/423 | | Domain and Range (including Interval Notation) | Pg.426 | 1bceh, 2, 3, 4 – 7, 8 (write each domain in interval notation), 9 – 11 |
| 50 | **#7**/455 | | Functions | Pg.455 | All |
| 51 | **#8**/465 | | Function Notation (Part 1) | Pg.467 | 1 – 7, 8ace, 9, 10, 12, 13 **[11]** |
| 52 | **#9**/471  **#10**/477 | | Function Notation (Part 2)  Function Notation and Problem Solving | Pg.472  Pg.478 | 1b, 2bc, 3, 4 (in “f” write the interval notation,too), 5, 6, 8, 9, 11, 12 **[7, 10]**  1 b – f\*, 2 b – e\*, 3b – e\*, 4 b – d\*, 5 b – f\* **[2f\*, 3f\*, 4efg\*]** |
| 53 | **#11**/481 | | Interpreting Graphs of Functions | Pg.483 | 1, 2 – 5, 6b, 7, 8, 9 – 13 **[6a]** |
| 54 | **#12**/489 | | Review – Practice Test | Pg.489 | All (Writt. Resp. bullets 1 and 4 only ), except: **[12, Num. Resp. 5]** |
| 55 | Chapter 7 (Relations and Functions) Test | | | | |

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| **Chapter 8** | | **Characteristics of Linear Relations 5 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions [Enrichment]** |
| 56 | **#1**/495  **#2**/503 | | Line Segments  The Distance Formula | Pg.498  Pg.505 | 1ac, 2c\*, 3ac, 4, 5\*(AB and EF), 7\*, 9, 10, 11\* **[8\*]**  1b, 2b\*, 3a, 4\*, 5\*, 7\*, 9 – 11, 12\* **[6\*, 8\*]** |
| 57 | **#3**/511 | | The Midpoint of a Line Segment | Pg.513 | 1be, 2bc, 3, 4acd, 5\*, 6\*, 9 – 12, 15\* **[7\*, 13, 14]** |
| 58 | **#4**/519 | | Slope of a Line Segment | Pg.523 | 1, 2 (lines 1, 3, 5), 3, 4bdf, 5bcef, 6ab, 7, 9 – 11, 12\* **[8\*, 13\*]** |
| 59 | **#5**/529 | | The Slope Formula | Pg.532 | 1, 2acd, 3d\*, 5ab, 6\*, 8, 9 – 11 **[4\*, 7, 12\*]** |
| 60 | **#6**/537 | | Parallel and Perpendicular Lines | Pg.540 | 1, 2, 3adefhi, 4 – 6, 7ad, 8b, (10, 11)acd, 14, 15, 16\* **[9, 12, 13]** |

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| **Chapter 9** | | **Equations of Linear Relations 8 days** | | | |
| 61 | **#1**/553 | | Equation of a Line in  Slope –y-intercept Form | Pg.557 | 1, 2, 3ace, 4acd, 5, 6, 7abcd, 9 – 12 **[13\*, 14\*]** |
| 62 | **#2**/563 | | Writing Equations Using  y = mx + b | Pg.565 | 1, 2, 4 – 7, 8abcef, 9 – 15 |
| 63 | **#3**/571 | | Equation of a Line in  General Form | Pg.573 | 1acdf, 2bdef, 3ac, 4 – 16 |
| 64 | **#4**/579 | | Equation of a Line in  Slope-Point Form | Pg.582 | 1, 2ac, 3cdf, 4cdf, 5, 6 – 10 |
| 65 | **#5**/587 | | Further Practice with  Linear Equations | Pg.588 | 1bd, 3 – 6, 8, 9 – 12, 14 **[7, 13]** |
| 66 | **#6**/593  **#7**/599 | | Graphing Linear Equations  Slope as a Rate of Change | Pg.595  Pg.601 | 1 – 6  1\*, 4a – h\*, 5a – g\*, (6 – 10)\* **[4i\*, 5h\*]** |
| 67 | **#7**/547 | | Review – Practice Test | Pg.547 | All\* |
| **#8**/607 | | Review – Practice Test | Pg.607 | All (avoid a calculator wherever possible, do only bullets 1 and 2 in the last question) |
| 68 | Chapter 8 (Characteristics of Linear Relations) / Chapter 9 (Equations of Linear Relations) Test | | | | |

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| **Chapter 10** | | **Solving Systems of Linear Equations 7 days** | | | |
| **Day** | **Lesson #/**Page  (in the workbook) | | **Title** | **Page** | **Questions [Enrichment]** |
| 69 | **#1**/613  **#2**/621 | | Solving Systems of Linear Equations by Graphing  Number of Solutions | Pg.617  Pg.624 | 1, 2, 5  1, 3, 4, 5, 8, 10, 11 |
| 70 | **#3**/627 | | Solving Systems of Linear Equations by Substitution | Pg.629 | 1ad (first two bullets), 2, 3, 4, 5, 6, 7\* **[8]** |
| 71 | **#4**/633 | | Solving Systems of Linear Equations by Elimination | Pg.635 | 1bd, 2ac, 3ac, 4ac, 5ad, 6, 7, 9 – 11 **[12\*]** |
| 72 | **#5**/641 | | Applications of Systems of Linear Equations (Part 1) | Pg.643 | (1 – 7)\*, 9\*, 10\* **[8\*, 11\*, 12\*, 13\*]** |
| 73 | **#6**/649 | | Applications of Systems of Linear Equations (Part 2) | Pg.651 | 1\*, 2\*, 3\*, 5\*, 6\*, 7\* **[4\*, 9\*]** |
| 74 | **#7**/655 | | Review – Practice Test | Pg.655 | All (avoid calculators where you can)  Written Response 1\*: do bullets 1, 2, 5 |
| 75 | Chapter 10 (Solving Systems of Linear Equations) Test | | | | |

**Review days &**

**Final Exam – Provincial –worth 20% of your mark**